

Appendix 3: Air Quality Monitoring

1.1 Air-Quality Monitoring

The purpose of air-quality monitoring pursuant to this Agreement is to maintain compliance with the National Ambient Air Quality Standards (NAAQS) and Prevention of Significant Deterioration (PSD) increment ceilings established under Section 109 and Section 163 respectively, of the Clean Air Act. The Parties agree that the preferred approach for achieving this goal is through the implementation of appropriate monitoring and management response actions in conjunction with SNWA's groundwater development.

An air quality monitoring station shall be located within the Utah portion of the Tier I Monitoring Area at a site deemed representative of the Snake Valley airshed. Data from this station will be used to substantiate potential air quality impacts local to proposed groundwater withdrawals. In addition, the data from this monitor will be used, in conjunction with data collected from existing air quality stations along the Wasatch Front, to substantiate potential regional transport of pollutants generated local to proposed groundwater withdrawals.

The air quality monitoring equipment deployed at the site should be capable of sampling particulate matter smaller than 10 micrometers in aerodynamic diameter (PM10) and verifying compliance with the NAAQS and PSD increment ceilings for this air pollutant. Meteorological monitoring equipment will also be deployed at the site to provide data to support the air quality measurements. The monitoring equipment will collect air quality and meteorological data on a continuous basis.

The cost of equipment and installation, in addition to the on-going maintenance, data collection and reporting, shall be borne by the SNWA. SNWA shall perform, or fund a mutually agreed upon third party to perform, the installation, maintenance and reporting. The Utah Division of Air Quality (UDAQ) will be able to provide monitoring recommendations and expertise to support data collection and interpretation.

1.1.1. Tier I Air-Quality Monitoring

SNWA, in consultation with the TWG, shall locate, construct and instrument a monitoring station for air quality and meteorological data within one year of the beginning of the Initial Period. This station shall be located in Utah at a site representative of the Snake Valley airshed and operated continuously from installation through the duration of the SNWA groundwater withdrawal. Air quality measurements shall consist of particulate matter smaller than 10 micrometers in aerodynamic diameter (PM10) using a continuous monitor. The meteorological parameters measured will include wind direction, wind speed, precipitation, temperature, relative humidity and solar radiation using a 10-meter tower. The air quality station shall be capable of measuring all pollutants normally measured by the UDAQ, and the parties agree to cooperate in the collection of such data.

The Parties, through the TWG, shall work together on the design and location of the site to be constructed to monitor potential changes in atmospheric concentrations of PM10 and the other pollutants in the Tier I Monitoring Area. The site shall be located, designed, and constructed to achieve the monitoring goals and requirements of this Agreement. The Parties also agree to

consider the installation and continuous operation of additional monitoring stations if one station is insufficient to monitor any increase PM10 or other pollutant concentrations caused by SNWA's groundwater withdrawals in the Tier I Monitoring Area.

1.1.2. Tier II Air-Quality Monitoring

No Tier II air quality monitoring is currently planned but could be implemented if deemed necessary by the TWG in the future.